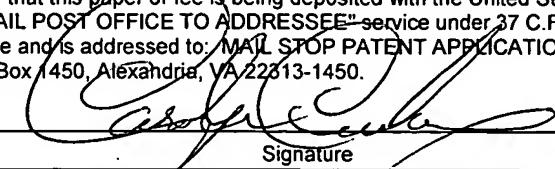


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I hereby certify that this paper or fee is being deposited with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to: MAIL STOP PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
Signature

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

JOHNNY ARNAUD

Serial No.: Unassigned

Filed: NOVEMBER 18, 2003

For: METHOD AND APPARATUS FOR  
MIXING FLUIDS, SEPARATING  
FLUIDS, AND SEPARATING SOLIDS  
FROM FLUIDS

Group Art Unit: Unassigned

Examiner: Unassigned

Atty. Dkt. No.: 11284.0029.DVUS08  
HYDB:029--8

**INFORMATION DISCLOSURE STATEMENT**

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record.

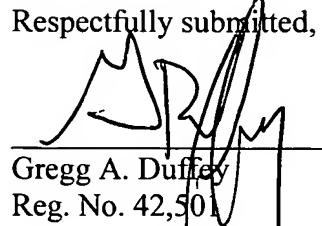
In accordance with 37 C.F.R. §§ 1.97(g),(h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

This application is a divisional application of Serial No. 09/879,496, filed June 12, 2001, and is relied upon for an earlier filing date under 35 U.S.C. § 120. In accordance with Rule 37 C.F.R. § 1.98(d), copies of the listed documents are not enclosed as they have been previously

cited by or submitted to the Patent and Trademark Office in prior application Serial No. 09/879,496, and because those references cited by the Applicant in that prior application were submitted in Rule-compliant Information Disclosure Statements.

Applicant respectfully requests that the listed documents be considered and made of record in the present case, and that the Examiner initial the spaces on the accompanying Form PTO-1449 to evidence the same.

Respectfully submitted,

  
\_\_\_\_\_  
Gregg A. Duffey  
Reg. No. 42,501

**HOWREY SIMON ARNOLD & WHITE, LLP**  
750 Bering Drive  
Houston, Texas 77057-2198  
713-787-1400

Date: NOVEMBER 18, 2003

|   |   |                                       |                          |
|---|---|---------------------------------------|--------------------------|
| Form PTO-1449 (modified)  |   | Atty. Docket No.<br>11284.0029.DVUS08 | Serial No.<br>Unassigned |
| List of Patents and Publications for Applicant's<br>INFORMATION DISCLOSURE STATEMENT<br>(Use several sheets if necessary) |   | Applicant<br>JOHNNY ARNAUD            |                          |
|   |   | Filing Date:<br>November 18, 2003     | Group:<br>Unassigned     |
| U.S. Patent Documents<br><i>See Page 1</i>  | Foreign Patent Documents<br><i>See Page 1</i> | Other Art<br><i>See Page 2</i>        |                          |

### U.S. Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date     | Name           | Class | Sub Class | Filing Date of App. |
|-------------|-----------|-----------------|----------|----------------|-------|-----------|---------------------|
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|             | A2        | 6,165,365       | 12/26/00 | Salyer et al   | 210   | 650       | 08/15/94            |
|             | A3        | 6,106,713       | 08/22/00 | Miller et al   | 210   | 321.63    | 02/25/97            |
|             | A4        | 6,080,317       | 06/27/00 | Wagner et al   | 210   | 652       | 05/09/97            |
|             | A5        | 6,032,931       | 03/07/00 | Plunkett       | 261   | 77        | 11/19/97            |
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|             | A7        | 5,944,998       | 08/31/99 | Rolchigo et al | 210   | 654       | 04/21/98            |
|             | A8        | 5,882,530       | 03/16/99 | Chase          | 210   | 788       | 04/30/97            |
|             | A9        | 5,794,791       | 08/18/98 | Kindig         | 209   | 727       | 06/07/95            |
|             | A10       | 5,647,977       | 07/15/97 | Arnaud         | 210   | 167       | 12/05/94            |
|             | A11       | 5,478,484       | 12/26/95 | Michaluk       | 210   | 788       | 07/22/92            |
|             | A12       | 5,451,349       | 09/19/95 | Kingsley       | 261   | 91        | 08/08/94            |
|             | A13       | 5,362,395       | 11/08/94 | Dorau et al    | 210   | 638       | 03/13/92            |
|             | A14       | 5,131,757       | 07/21/92 | Smith          | 366   | 165       | 03/07/91            |
|             | A15       | 5,071,542       | 12/10/91 | Tuszko et al   | 209   | 144       | 01/30/91            |
|             | A16       | 5,021,165       | 06/04/91 | Kalnins        | 210   | 703       | 06/10/88            |
|             | A17       | 5,000,848       | 03/19/91 | Hodgins et al  | 210   | 321.68    | 09/06/89            |
|             | A18       | 4,790,942       | 12/13/88 | Shmidt et al   | 210   | 650       | 06/10/87            |
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|             | A20       | 3,947,364       | 03/30/76 | Laval, Jr.     | 210   | 512       | 06/13/74            |
|             | A21       | 3,568,837       | 03/09/71 | Laval, Jr.     | 210   | 136       | 07/24/67            |
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|             | A23       | 3,507,397       | 04/21/70 | Robinson       | 210   | 512       | 04/09/69            |

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DATE CONSIDERED:

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*INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)*

|   |   |                                       |                          |
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|-------------|-----------|-----------------|----------|-------------|-------|-----------|---------------------|
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|             | A28       |                 |          |             |       |           |                     |

### Foreign Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date | Country | Class | Sub Class | Translation Yes/No |
|-------------|-----------|-----------------|------|---------|-------|-----------|--------------------|
|             | B1        |                 |      |         |       |           |                    |

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| Exam. Init. | Ref. Des. | Citation  |
|-------------|-----------|---|
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|             | C2        | “CHEMICAL CALCULATIONS An Introduction to the Use of Mathematics in Chemistry”, Sidney W. Benson, University of Southern California                           |
|             | C3        | “FLUID MECHANICS With Engineering Applications”, R. L. Daugherty, California Institute of Technology, 1954  |
|             | C4        | “Equipment and Applications For Industry”, Claude Laval Corporation   |
|             | C5        | “INDUSTRIAL PROCESS PROBLEM SOLVING...SOLIDS/LIQUIDS AND LIQUID/LIQUID HYDROCYCLOONES FOR SEPARATION, CLASSIFICATION, AND DEWATERING”, © 1995 Krebs Engineers |
|             | C6        | DEMCO CYCLONE SEPARATORS Catalog CI-78, August 15, 1978   |
|             | C7        | GEOSOURCE® The PIONEER in solids/liquid separation, 1979 CATALOG  |
|             | C8        | HYDROCYCLOONES Problem Solving in Liquid/Solids Separation, Picoso International Inc.   |

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### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam. Init. | Ref. Des. | Citation   |
|-------------|-----------|--|
|             | C9        | "Facts about liquid cyclones. Where to use them. Where not to use them. And how to specify the right cyclone for the job. With special emphasis on The DORRCLOSE®"; © 1979 Dorr-Oliver Incorporated    |
|             | C10       | "Porous Plastics" POREX®, ©1998 Porex Technologies Corp.   |
|             | C11       | "Nitroxy Siliporite® Molecular Sieves for Medical Oxygen Concentrations" CESA, (no date)   |
|             | C12       | "New Trends In Air Separation Adsorbents" by Marie-Theres Grandmougin, et al.; CECA, France  |
|             | C13       | "Clarifying Oilfield and Refinery Waste Waters by Flotation;" Journal of Petroleum Technology, pp. 426-430, dated April 1973.  |
|             | C14       | "Membrane Bioreactors for Wastewater Treatment;" by Tom Stephenson, et al.; dated 2000, reprinted 2001.  |
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|             | C16       | "The Application of Demulsification Chemicals in Recycling, Recovery and Disposal of Oily Waters;" Sam Delchad, Ph. D., Emulsions Control Inc. California (no date).                                   |
|             | C17       | EPA Technical Bulletin, EPA 456/F-99-006R; "Nitrogen Oxides (NOx), Why and How They Are Controlled;" November 1999.  |
|             | C18       | "Superior Nitrate Removal for Treatment Plants and the Home;" Sybron Chemicals Inc.; IONIC® SR-7 Advanced Anion Exchange Resin.  |
|             | C19       | Solicitation for Financial Assistance Applications No. DE-PS26-02NT41613; "Development of Technologies and Capabilities for Developing Coal, Oil and Gas Energy Resources;" pg. 55, "3. Gas Flooding". |
|             | C20       | International Search Report; International application No. PCT/US02/39623; mailed March 27, 2003   |
|             | C21       |  |
|             | C22       |  |

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